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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 10

**Complete if Known**

Application Number	10/618,267
Filing Date	July 14, 2003
First Named Inventor	Schneck
Art Unit	1644
Examiner Name	M. DIBRINO
Attorney Docket Number	001107.00355

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (If known)			
/MD/		US- 5116964	05/26/1992	Capon et al.	
		US- 5284935	02/08/1994	Clark et al.	
		US- 5420244	05/30/1995	Rudolph et al.	
		US- 5574205	11/12/1996	Kucherlapati et al.	
		US- 5635363	06/03/1997	Altman et al.	
		US- 5652342	07/29/1997	Zimmerman et al.	
		US- 5679641	10/21/1997	Melief et al.	
		US- 5820866	10/13/1998	Kappler et al.	
		US- 5869270	2/09/1999	Rhode et al.	
		US- 6011146	01/04/2000	Mottez et al.	
		US- 6015884	01/18/2000	Schneck et al.	
		US- 5723309	03/03/1998	Bonneville et al.	
		US- 5583031	12/10/1996	Stern et al.	
		US-6,140,113	10-31-2000	Schneck et al.	
		US-6,269,411	07-31-2001	Reasoner	
		US-6,448,071	9-10-2002	Schneck et al.	
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		US 2002/0119121	8-29-2002	Vitiello et al.	
		US 2003/0077248	4-24-2003	Moriarty et al.	
		2002/0006903	1-17-2002	Schneck et al.	
		US- 6,787,154	09-07-2004	Albani	
/MD/		Serial No. 09/642,660		Schneck et al.	
Examiner Signature	/Marianne Dibrino/			Date Considered	05/22/2007

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Sheet 2 of 10

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Examiner Name	M. DIBRINO
Attorney Docket Number	001107.00355

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM - YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		EP 0352761	07/1989	Behringwerke		
/MD/		WO 93/10220	05/1993	Anergen		
		WO 93/17095	09/1993	Scripps		
		WO 93/24525	12/1993	Rijksuniversiteit Leiden; Seed Capital Investment		
		WO 94/19473 A	09/1994	Somatogen		
		WO 94/24290	10/1994	British Biotechnology Ltd.		
		WO 94/26903	11/1994	Rijksuniversiteit Leiden; Seed Capital Investment		
		WO 94/28871	12/1994	Endocon		
		WO 96/04314	02/1996	Dade International Inc.		
		WO 96/20215	07/1996	Laboratoires OM S.A.		
		WO 97/44667	11/1997	Institut Pasteur		
		WO 98/03552	01/1998	Children's Hospital Medical Center		
		WO 98/06749	02/1998	Harvard College		
		WO 98/10284	03/1998	Ortho Pharmaceutical Corp.		
		WO 99/09064	02/1999	Mount Sinai School of Medicine		
		WO 99/42597	08/1999	Harvard College		
		WO 99/50637	10/1999	Ludwig Institute		
		WO 99/64597	12/1999	USA		
		WO 01/94944	12/13/2001	Memorial Sloan-Kettering		
		WO 00/40968	07-13-2000	Unilever		
		WO 01/80833	11/01/2001	Albani		
		WO 02/065992	08/29/2002	Ortho-McNeil		
		WO 03/057171	07/17/2003	University of Pennsylvania		
/MD/		WO 94/09131	04/28/1994	Harris		
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Complete if Known</th> </tr> <tr> <td style="width: 50%;">Application Number</td> <td>10/618,267</td> </tr> <tr> <td>Filing Date</td> <td>July 14, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Schneck</td> </tr> <tr> <td>Art Unit</td> <td>1644</td> </tr> <tr> <td>Examiner Name</td> <td>M. DIBRINO</td> </tr> <tr> <td>Attorney Docket Number</td> <td>001107.00355</td> </tr> </table>		Complete if Known		Application Number	10/618,267	Filing Date	July 14, 2003	First Named Inventor	Schneck	Art Unit	1644	Examiner Name	M. DIBRINO	Attorney Docket Number	001107.00355
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Sheet	3	of	10														

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/MD/		J. Dal Porto et al. "A soluble divalent class I major histocompatibility complex molecule inhibits alloreactive T cells at nanomolar concentrations" Proceedings of the National Academy of Science of the USA vol. 90, No. 14, Jul. 15, 1993 pp. 6671-6675.	
↓		T. Johansen et al., "Potent inhibition of alloreactive T cells by nanomolar concentrations of a divalent soluble class I MHC molecule" The Journal of Immunology, vol. 150, No. 8, part 2, Apr. 15, 1993, p. 83A. <b>Abstract 464</b>	
↓		C. Gregoire et al. "Engineered secreted T-cell receptor alpha-beta heterodimers" Proceedings of the National Academy of Sciences of the USA vol. 88, No. 18, Sep. 15, 1991, pp. 8077-8081.	
↓		D. Eilat et al. "Secretion of a soluble, chimeric gamma-delta T-cell receptor-immunoglobulin heterodimer" Proceedings of the National Academy of Sciences of the USA, vol. 89, No. 15, Aug. 1, 1992, pp. 6871-6875.	
↓		S. Weber et al. "Specific low-affinity recognition of major histocompatibility complex plus peptide by soluble T-cell receptor" Nature, vol. 356, No. 6372, Apr. 30, 1992, pp. 792-976.	
↓		H-C Chang et al. "A general method for facilitating heterodimeric pairing between two proteins: Application to expression of alpha and beta T-cell receptor extracellular segments" Proceedings of the National Academy of Sciences of the USA, vol. 91, Nov. 1994, pp. 11408-11412.	

Examiner Signature	/Marianne Dibrino/	Date Considered	05/22/2007
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			Filing Date	July 14, 2003	
			First Named Inventor	Schneck	
			Art Unit	1644	
			Examiner Name	M. DIBRINO	
Sheet	4	of	10	Attorney Docket Number	001107.00355

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/MD/		S. O'Herrin et al. "Expression and analysis of soluble MHC- and TcR-immunoglobulin super dimers" The FASEB Journal, vol. 10, No. 6, Apr. 30, 1996 p. A1473.	
		J. Schneck et al. "Specific inhibition of graft rejection by soluble MHC superdimers" The FASEB Journal, vol. 10, No. 6, Apr. 30, 1996, p. A1473.	
/MD/		M. Lebowitz et al. "Specificity of soluble 2C TcR/Ig super-dimers for peptide/MHC complexes" The FASEB Journal, vol. 10, No. 6, Apr. 30, 1996, p. A1178. <b>Abstract 1031</b>	
/MD/		Kalandadze et al. "Expression of Recombinant HLA-DR2 Molecules" The Journal of Biological Chemistry, vol. 271, No. 33, Aug. 16, 1996, pp. 20156-20162.	
/MD/		Scott et al. "Role of Chain Pairing for the Production of Functional Soluble IA Major Histocompatibility complex Class II Molecules" J. Exp. Med. vol. 183, May 1996, pp. 2087-2095.	
/MD/		Gujatic et al. "Mapping and ranking of potential cytotoxic in the p53 protein: effect of mutations and polymorphism on peptide binding to purified and refolded HLA molecules" Eur. J. Immunol. 25(6):1638-42 (Jun. 1995) (Abstract).	

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Application Number	10/618,267
Filing Date	July 14, 2003
First Named Inventor	Schneck
Art Unit	1644
Examiner Name	M. DIBRINO
Attorney Docket Number	001107.00355

Sheet 5 of 10

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/MD/		Kozono et al., "Production of soluble MHC class II proteins with covalently bound single peptides" Nature 369(6476):151-54(May 1994).	
		Lee et al., "Functional cell surface expression by a recombinant single-chain class I major histocompatibility complex molecule with a cis-active beta 2-microglobulin domain" Eur. J. Immunol. 24(11):2633-39 (Nov. 1994) (Abstract).	
		Lepley et al., "Biochemical and Functional Characterization of Soluble Multivalent MHC L <sup>2</sup> /Fcy 1 and L <sup>2</sup> /Fcy Chimeric Proteins Loaded with Specific Peptides" Transplantation. 63:765-774 (Mar. 15, 1997).	
		Lone et al. "In Vitro Induction of Specific Cytotoxic T Lymphocytes Using Recombinant Single-Chain MHC Class I/Peptide Complexes" J. Immunother. 21(4):283-294 (1998).	
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		McCarty et al. "Targeting p53 for adoptive T-cell immunotherapy" Cancers Res. 58, 2601-05 (Jun. 15, 1998) (Abstract).	
/MD/		Matsui et al. Kinetics of T-cell receptor binding to peptide/I-Ek complexes: correlation of the dissociation rate with T-cell responsiveness. Proc. Natl. Acad. Sci., USA, 91(26):12862-12866, 20 December 1994.	

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Sheet 6 of 10

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Art Unit	1644
Examiner Name	M. DIBRINO
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/MD/		McCarty et al. "An HLA-A-restricted, p53 immune response from HLA transgenic p53 knockout mice" Ann Surg Oncol 1998 Jan.-Feb.; 5(1):93-9.	
		Monez et al. "Cells Expressing a Major Histocompatibility Complex Class I Molecule with a Single Covalently Bound Peptide are Highly Immunogenic" J. Exp. Med., 181:493-502 (Feb. 1995).	
		White et al. "Soluble Class I MHC with $\beta$ -Microglobulin Covalently Linked Peptides: Specific binding to a T Cell Hybridoma" J. Immunol. 162(5):2671-2676 (Mar. 1999).	
		Zwirner et al. "Expression of a Functional Chimeric Ig-MHC Class II Protein" J. Immunol. 148(1):272-6 (Jan. 1992).	
		Nijman et al. "Characterization of cytotoxic T lymphocyte epitopes of a self-protein, p53, and a non-self-protein, influenza matrix: relationship between major histocompatibility complex peptide binding affinity and immune responsiveness to peptides" J. Immunother 1993 Aug.; 14(2):121-6 (Abstract).	
		Vierboom et al. "Tumor eradication by wild-type p53-specific cytotoxic T lymphocytes" J. Exp Med 1997 Aug. 29; 186(5):695-704 (Abstract).	
		Kuwana et al. Expression of chimeric receptor composed of immunoglobulin-derived V regions and T-cell receptor-derived C regions. Biochem Biophys Res Commun 1987 Dec; 149(3):960-968.	
/MD/		Seimiya H et al. T cell receptor-extracellular constant regions as hetero-cross-linkers for immunoglobulin variable regions. J Biochem (Tokyo) 1993. Jun; 113(6):687-91.	

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/MD/		DeLeo "p53-based immunotherapy of cancer" Crit Rev Immunol 1998;18(1-2):29-35 (Abstract).	
/MD/		Bertholet et al. "Cytotoxic T lymphocyte responses to wild-type and mutant mouse p53 peptides" Eur J Immunology 1997 Mar.; 27(3):798-801 (Abstract).	
		Motiez et al. "A single-chain murine class I major transplantation antigen" Eur J Immunol 1991 Feb.; 21(2):467-71.	
/MD/		J. D. Altman et al. "Phenotypic Analysis of Antigen-Specific T Lymphocytes" Science, vol. 274, Oct. 4, 1996, pp. 94-96.	
/MD/		Casares et al. "Engineering and Characterization of a Murine MHC Class II-Immunoglobulin Chimera Expressing an Immunodominant CD4 T Viral Epitope" Protein Engineering, vol. 10, No. 11, Nov. 1997, pp. 1295-1301.	
/MD/		Jonathan P. Schneck, Immunological Investigations, 29(2), 163-169 (2000), "Monitoring Antigen-Specific T cells Using MHC-Ig Dimers".	

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/MD/		Maurice C. Howard, et al., Immunology Today, vol. 20: 161-164, 1999, "MHC-based diagnostics and therapeutic-s-clinical applications for disease-linked genes".	
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Examiner Signature	/Marianne Dibrino/	Date Considered	05/22/2007
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<i>Application Number</i>	10/618,267
				<i>Filing Date</i>	July 14, 2003
				<i>First Named Inventor</i>	Schneck
				<i>Art Unit</i>	1644
				<i>Examiner Name</i>	M. DIBRINO
(Use as many sheets as necessary)				<i>Attorney Docket Number</i>	001107.00355
Sheet	9	of	10		

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Sheet 10 of 10

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